TSS-880

8.1 in. Room Scheduling Touch Screen



- *Next generation Crestron touch screen designed for enterprise room scheduling applications*
- *8.1 in. (204 mm) widescreen active-matrix color display and 1280 x 800 WXGA display resolution*
- *Integrates directly with various room scheduling services*
- *Integrated light bar for at-a-glance indication of room availability*
- *Standard U.S., U.K., and European electrical box installation with additional mounting options available*
- *Single wire Ethernet connection with PoE or PoE+ power*
- *Wi-Fi® network connectivity*
- *USB-C 2.0 port for room availability accessories*
- *Enterprise grade security and authentication*
- *Available in white or black finish*

Crestron TSS-880 series touch screens are designed to enhance and simplify room scheduling across an enterprise. The TSS-880 installs near a meeting room or huddle space to provide a clear indication of its availability and scheduling and integrates seamlessly with a variety of popular scheduling services.

Crestron Room Scheduling App

As part of a complete enterprise solution, the TSS-880 serves as a room booking interface through the Crestron Room Scheduling app. If desired, a room can be reserved on the spot for an ad hoc meeting. A CEN-ODT-C-POE occupancy sensor can also be paired to the touch screen, allowing for occupancy status to be reported instantly to the scheduling app for no shows and unscheduled room usage.[2,3]

Running the Crestron Scheduling App, the TSS-880 integrates directly with Microsoft Exchange Server® software (for users of Outlook® software and Microsoft 365® software), the Google Calendar™ calendaring app (including G Suite™ software), CollegeNET® 25Live® scheduling software, or Ad Astra™ software.

Third-Party Scheduling Apps

The TSS-880 also includes support for various third-party scheduling applications. New providers are made available via firmware or over the air updates. Whatever provider you choose, setup is as simple as connecting the touch screen to the network and choosing an app from the built-in setup screens. The selected app downloads from the cloud and installs on the touch screen without any programming or control system required.[4,5]

Built for Enterprise Scheduling Applications

The TSS-880 is an enterprise-grade device engineered to meet all the demands of a corporate office, conference center, or higher education environment. Its 8 in. (201 mm) capacitive display provides an intuitive user interface dedicated for scheduling rooms and viewing essential meeting details. The UI can be customized and branded with your choice of background images and logos. A larger 10.1 in. (257 mm) version (TSS-1080 series) is also available.[1]

- **Functional:** The TSS-880 provides everything needed for scheduling applications in one compact unit that mounts over a standard electrical box or cutout. The touch screen offers Gigabit Ethernet and PoE/PoE+ connectivity, or, for deployments without access to Ethernet, it can be connected to the network over Wi-Fi® communications via a local wireless access point (WAP).
- **Versatile:** Crestron offers a variety of options for mounting the TSS-880 to drywall, masonry, glass, mullions, and other surfaces. Optional hallway sign accessories are available here to increase the visibility of the room availability status.
- **Reliable:** Consumer tablets are meant for mobile handheld use and not permanent installs. By contrast, Crestron touch screens are purpose-built for permanent installation and years of reliable 24/7 operation in a commercial environment. To ensure the touch screen is using the latest features, the TSS-880 checks nightly for app updates and loads the latest version automatically.

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- **Secure:** Crestron touch screens run Microsoft® Device Ecosystem Platform (MDEP) and employ enterprise-grade networking with robust security features such as 802.1X authentication, TLS encryption, HTTPS connectivity, and Active Directory® service integration. These features protect your network against service interruptions and malicious intrusions and ensure compliance with your organization's network policies.
- **Manageable:** Crestron touch screens feature cloud-based management to streamline the process of configuring and monitoring every touch screen on the network and keeping them updated. They also support Simple Network Management Protocol (SNMP), so they can be monitored by your IT administrator alongside every other device on the network.
- **Cost-Effective:** Crestron touch screens offer clear advantages over other alternatives, but that doesn't mean they cost more. The TSS-880 delivers a comparable or lower cost solution compared to buying tablets with all the extra peripherals and maintenance they require.

Integrated Light Bars

The TSS panels include integrated light bars on either side that provide users with an at-a-glance indication of room availability from both the sides and front. The light bars default to displaying red when a room is occupied and green when it is available, but can also be programmed to display a full range of RGB colors.

Power over Ethernet

Using PoE technology, the TSS-880 gets its operating power directly through the network cable. PoE (Power over Ethernet) eliminates the need for a local power supply or any dedicated power wiring. Crestron PoE switches offer a total networking solution with built in PoE for multiple touch screens. Refer to the full list of supported PoE switches here.

> **NOTE:** Refer to the Power specifications for more details.

XiO Cloud Service

The TSS-880 is compatible with the XiO Cloud® service, which is an IoT (Internet of Things) based platform for remotely monitoring and managing Crestron devices across an enterprise or an entire client base. Built on the Microsoft® Azure® software platform and utilizing Microsoft's industry leading Azure IoT Hub technology, XiO Cloud enables installers and IT managers to deploy and manage thousands of devices simultaneously. Unlike other virtual machine based cloud solutions, Azure services provide unlimited scalability to suit the ever growing needs of an enterprise. For more information, visit the XiO Cloud page.

Proximity Sensor and Brightness Controls

The TSS-880 provides a built-in proximity sensor that wakes the screen without requiring any user interaction, and automatic brightness controls ensure optimal visibility under varying lighting conditions.

Room Scheduling Accessories

The TSS-880 provides a USB-C port for connecting supported Crestron room scheduling accessories to the touch screen.[2]

Wall Mount Options

Using the bracket provided, the TSS-880 is easily installed over a 2-gang or 3-gang US electrical box, or a 2-gang European or UK electrical box. A security latch option is included to deter unauthorized removal of the touch screen.

Additional wall mounting options are afforded using the optional TSW-UMB-80 universal mounting bracket, TSW-UMB-80-PMK preconstruction mounting kit, and TSW-UMB-80-BBI back box (sold separately).

Optional Mounting Accessories

The TSS-880 supports numerous optional mounting accessories that allow the touch screen to be installed in all kinds of installations.

- The TSW-880/1080-MSMK multisurface mount kit allows a touch screen to be mounted directly to virtually any flat surface, which is ideal for mounting at the entrance to a meeting space for room scheduling applications.[2]
- The TSW-880/1080-MUMK allows the touch screen to be attached to the mullion of an interior glass wall, window, or partition.[2]
- The TSW-880/1080-MSMK-ANG multisurface mount kit allows a touch screen to be mounted directly to virtually any flat surface while displaying at an angle for easier viewing.

The TSS-880 is also compatible with Wall-Smart® flush wall mount products via a partnership with Crestron. Refer to Wall-Smart for more information on supported hardware.

Specifications

Touch Screen Display

Display Type	TFT active matrix color LCD
Size	8.1 in. (204 mm) diagonal
Aspect Ratio	16:10 WXGA
Resolution	1280 x 800 pixels
Brightness	Minimum: 350 nits (cd/m²) Maximum: 400 nits (cd/m²)
Contrast	1000:1
Color Depth	24 bit, 16.7M colors
Illumination	Edgelit LED with auto brightness control
Viewing Angle	±80° horizontal, ±80° vertical
Touch Screen	Projected capacitive, 5 point multitouch capable

Buttons

Virtual Buttons	(6) Virtual buttons in collapsible universal tool bar, per button show/hide, preconfigured with icons for Power, Home, Lights, Up, Down, and Microphone

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Reset	(1) Pin hole on bottom for hardware reset

Room Scheduling Support

Crestron Scheduling App	Microsoft Exchange Server® and Microsoft 365® software, Google Calendar™ calendaring app and G Suite™ software, CollegeNET® 25Live® software, and Ad Astra™ software
Third-Party Apps	Includes support for various third-party scheduling applications.[3,4,5]

Memory

RAM	8GB LPDDR4
Storage	40GB eMMC pSLC
Maximum Project Size	1000 MB

Wired Communications

Ethernet	1000Mbps, autoswitching, autonegotiating, autodiscovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), IEEE 802.1X, SNMP, IPv4 or IPv6, Active Directory® service authentication, HTTPS web browser setup, XiO Cloud® client, IEEE 802.3 at compliant
USB	USB 2.0 host for room scheduling accessories

Wireless Communications

Transceiver	IEEE 802.11a/b/g/n/ac/ax Wi-Fi 6E (2.4, 5 GHz and 6GHz) 2x2 MIMO, static IP or dynamic IP via DHCP
Security	64 and 128-bit WEP, WPA, WPA2, WPA3, WPA Enterprise and WPA2 Enterprise
Range	Up to 50 ft (15 m), subject to site-specific conditions
Bluetooth® Hardware	Crestron Bluetooth beacon
Radio Frequency (RF) signals	Proximity sensor (Japan): 60.5 to 61 GHz Proximity sensor (Worldwide): 61 to 61.5 GHz

Streaming Decoder

Video Formats	H.265, H.264, MJPEG
Audio Formats	AAC Stereo
Bitrates	Up to 25 Mbps (20 Mbps maximum recommended)
Input Resolutions	Up to 3840x2160@30fps
Protocol	RTSP

Audio

Features	Built-in speakers

Connectors

LAN PoE	(1) 8-pin RJ-45 connector, female, with 2 LED indicators; 1000BASE-TX Ethernet port; PoE+ PD port; Green and yellow LEDs indicate Ethernet port status
USB	(1) USB Type C connector, female; USB 2.0 host port

Power

PoE (Power over Ethernet)	IEEE 802.3at Type 2 compliant PoE+ PD (Powered Device); Requests 30 W (PoE+ Class 4) from an 802.3at Type 2 PSE without LLDP; Requests 15.4 W (PoE Class 0) from an 802.3af (or 802.3at Type 1)

> **NOTE:** Enabling the USB port requires use of an 802.3 at Type 2 PoE+ PSE.

Environmental

Temperature	32 to 104°F (0 to 40°C)
Humidity	10% to 95% RH (noncondensing)
Heat Dissipation	44 BTU/hr

Construction

Housing	Die-cast housing, smooth black or white finish, glass with black or white surround
Mounting	Surface mount over a 2 or 3-gang US electrical box, 2-gang European (DIN 49073) electrical box, or 2-gang UK (BS 4662) electrical box; Lectern mount over a 2 in. H x 3-3/4 in. W (51 mm H x 96 mm W) cutout; 1-3/8 in. (35 mm) minimum mounting depth; Wall mount, surface mount, and rack options available separately

Dimensions

Height	4.88 in. (124 mm)
Width	7.93 in. (201 mm)
Depth	1.18 in. (30 mm)

Weight

14.6 oz (415 g)

Compliance

Regulatory Model: M202404001

FCC Part 15 Class B, IC Class B, CE, UL® Listed for US and Canada/Intertek®

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Models

TSS-880-B
8.1 in. Room Scheduling Touch Screen, Black

TSS-880-W
8.1 in. Room Scheduling Touch Screen, White

Available Accessories

For supported accessories, visit the TSS-880 product page at www.crestron.com.

Notes:

1. Voice recognition, web browsing, weather information, and certain other functions require an internet connection.
2. Item(s) sold separately. Refer to each product's spec sheet for complete information.
3. Room scheduling mode requires the TSS-880 to be designated exclusively for room scheduling use, which precludes use of certain features and functions described in this spec sheet. Additionally, CollegeNET® 25Live® scheduling software and Ad Astra™ software do not support scheduling ad hoc meetings from the touch screen. For design assistance, contact the Crestron True Blue support team at www.crestron.com/support.
4. Refer to the firmware release notes for a list of all scheduling apps that are supported by that firmware release.
5. Additional subscriptions and/or licenses may be required. Refer to each provider's website for details about the capabilities and requirements of its scheduling application and services. Third party apps typically run on the TSS-880 as they do on a tablet device. The TSS-880 runs only one app, which is selected at setup. Only the apps approved and delivered by Crestron can run on the TSS-880.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or contact us for additional information by visiting www.crestron.com/contact/our-locations for your local contact.

The original language version of this document is U.S. English.
All other languages are a translation of the original document.

The product warranty can be found at www.crestron.com/warranty.

The specific patents that cover Crestron products are listed online at www.crestron.com/legal/patents.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

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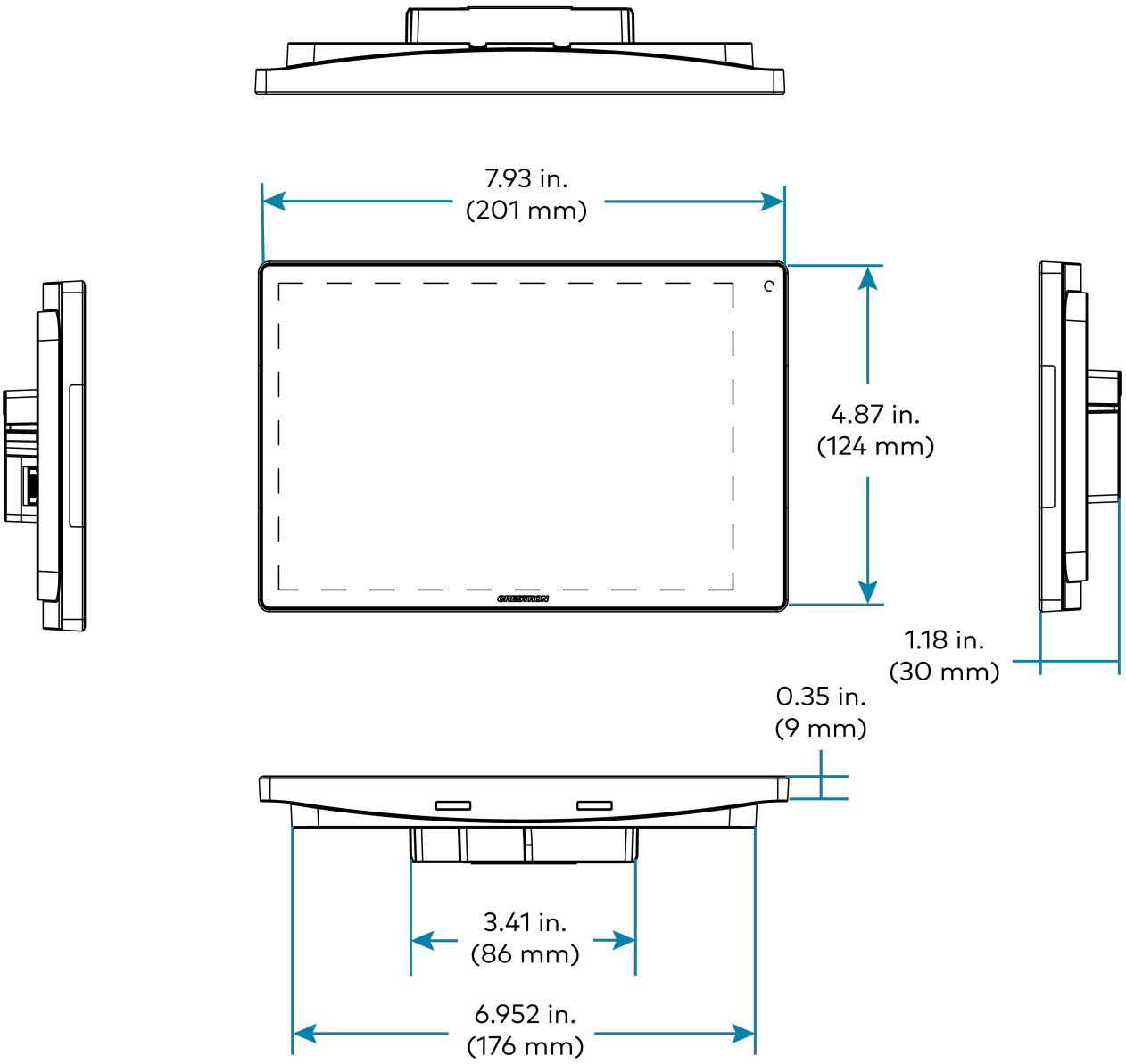
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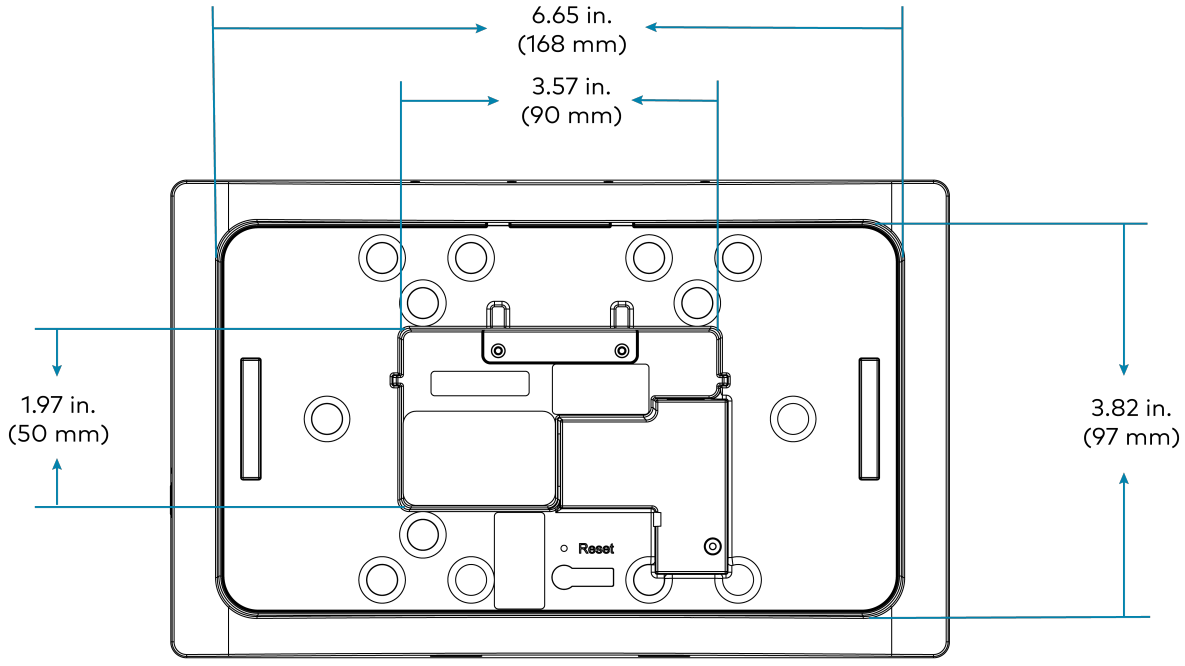
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